## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE      |
|---------------------------|----------|--------|-----------|
|                           |          |        |           |
| FEE DETERMINATION         | E.H      |        | 08-1.6-01 |
| O.I.P.E. CLASSIFIER       |          |        |           |
| FORMALITY REVIEW          | Us       | 1081   | 10101     |
| RESPONSE FORMALITY REVIEW |          |        |           |
|                           |          |        |           |

## INDEX OF CLAIMS

| <b>4 </b>            | Rejected    |       | Non-elected  |
|----------------------|-------------|-------|--------------|
| } <b>=</b> .,,,,,,,, | Allowed     | 1     | Interference |
| 🛴 (Through numers    | I) Canceled | <br>Α | Appeai       |
|                      | Restricted  | 0     | Objected .   |

|     |           | 4          |            |          |          |                | v.ie     |              |              |         | 7.15    |              | Restricted 0 |           |          |                  |          |              |          |          |                 |              | Objected |            |            |     |          |            |          |          |          |               |                   |                     |          |            |              |            |
|-----|-----------|------------|------------|----------|----------|----------------|----------|--------------|--------------|---------|---------|--------------|--------------|-----------|----------|------------------|----------|--------------|----------|----------|-----------------|--------------|----------|------------|------------|-----|----------|------------|----------|----------|----------|---------------|-------------------|---------------------|----------|------------|--------------|------------|
| 'n. |           | <u>ः</u>   |            |          | Date     |                |          |              |              |         |         | Ctáim        |              |           |          |                  |          |              |          |          |                 |              | $\neg$   | ſ          | Cla        | ılm | -        | Date ^     |          |          |          |               |                   |                     |          |            |              |            |
| ¥.  | la<br>Ti  |            |            | RE:      | 20°      | -1             | Ual      |              | _            | r       |         | F            | 7            |           |          |                  |          |              |          | Dat      | 1               | 7            | $\neg$   | 1          | $\neg$     | ł   |          | _          | 1        |          |          | 14            |                   | ~ 1                 | 4.       | .5         | 10           | 130        |
|     | Fuer      | Organia    | 45000      |          | ***      | 1              | 4        | 4            |              |         |         |              |              | Final     | Original |                  |          |              |          |          |                 |              |          |            |            |     | Final    | Original   |          | 1        |          |               |                   |                     | <u> </u> |            |              |            |
|     |           | 징          | 65         | 얽        |          |                |          | 5.0          | 33.          | . 4     | 50      | -            |              | E Y       | Ō<br>51  | H                |          | Ļ            | $\dashv$ | -        | $\dashv$        | $\dashv$     | $\dashv$ | $\dashv$   | $\dashv$   |     | Œ        | 101        | _        | -        | -        |               | ر<br>خ            |                     |          | 7.         | 33<br>53     |            |
| H   | 2         | (I)        | 믝          |          | 2        | 17.007         |          | 1.           |              |         | -       | 差            |              | Z         | 52       |                  | _        |              | $\dashv$ | -        | _               | -            | -        | -          |            |     |          | 102        |          |          |          |               |                   |                     | Ż        |            |              | Z.         |
| 掁   |           | #          | 릚          |          |          |                |          |              | <b>松</b>     |         |         |              |              | 12        | 53       |                  | 1        |              | -        |          |                 |              | $\dashv$ | -          |            |     | 34       | 103        |          |          | -        |               | 3                 |                     | 12       | 4          | 1            | 0          |
| Ļ   | 4         | 녞          |            | -        | =        |                | <b>1</b> | . S. 180     |              |         |         |              |              | 12        | 54       | 7.               | -        | -            |          | $\dashv$ |                 |              | -1       | $\dashv$   |            | ,   |          | 104        |          | - 1      | 7        |               |                   |                     | 13       | 9          | F            |            |
| ╢   |           | - 4        | 믬          |          |          |                |          |              | 20           | -       |         |              | **           | F         | 55       | Н                | <u> </u> | $\vdash$     |          | $\dashv$ |                 | 7            |          | _          | $\neg$     |     |          | 105        | Н        |          |          | $\overline{}$ |                   |                     | 7        | 8.         |              |            |
| 1   | 2         | 녛          | 릙          |          | 묾        | 쿫              | 多数       |              | -            | 13      |         | 25           | Ĵį.          | 6         | 56       | Н                | _        |              |          |          | ╗               | 7            | 1        |            | П          | - 1 | ~        | 106        | 7        |          |          |               |                   | · (C                | 1        |            |              | 254        |
| 胩   |           | 偒          | 哥          |          | 품        | $\overline{z}$ | 2        | Ž,           |              | ×       |         | 334          | í,           | Ç.        | 57       | 1                |          |              |          |          |                 |              | 7        |            | ╗          | .   | -        | 107        | 7.       | ٠.       | ,        | , i.,         |                   | 11                  | 8        | 1,5        | 22.          | 3          |
| 4   | 레         | á          | =          |          | Ħ        |                |          |              |              | -       |         |              |              |           | 58       | 7                |          |              | 12.0     |          |                 |              |          |            |            |     |          | 108        | 50       |          | ·        |               | 100               | ^                   | 1        | 1          | 5            | ,          |
| ۲   | 릵         | ō          |            |          | 2        |                | 15       |              | J.           |         | 4       | 44           |              | i.        | 59       | 1                | . • 2    |              | 1        |          |                 |              |          |            |            | : 1 |          | 109        |          |          |          |               |                   | . }                 | 3        | 1          | Ę.           | \$2        |
| È   | Ħ         | o          |            | *        | 萎        |                | 1        | 8            | 44           | 1.5     |         | Ϋ́           | 40           | 4,3       | 60       |                  |          | 1            |          |          |                 |              |          |            |            |     |          | 110        |          |          |          |               |                   | U)                  |          | 10         | 4            | <u>)</u>   |
| 扩   | ð         | ñ          |            | Ĭ        |          |                |          | 4            | P.           |         | 8       | 19           | 14           | 15        | 61       | <u>ئۇ</u><br>ئۇر | ्र       |              |          |          |                 |              | $\Box$   |            |            | -   |          | 111        | 1        | À        | 146      |               | • 4               | 1                   | 84       | ×          | 35           | 37         |
| li  |           | 2          |            |          |          | 3              | 3        |              | :13          | V       |         | 品)           | 8            | 4         | 62       | ૂર               |          |              |          |          | $\Box$          | $\Box$       |          |            | Ŀ          |     |          | 112        |          |          | L        | ٤             |                   |                     |          | *          | 4            | 34<br>34   |
| H   |           | 3          |            | 15       |          |                | 数        | T            | 1            |         |         | 极            |              |           | 63       |                  | $I_2^*$  |              | 7        |          |                 | $\Box$       |          |            | Ш          |     |          | 113        |          |          |          | -1            | ٤,                | 1                   |          | <b>{</b> } | 3            | <b>V</b>   |
|     |           | 1          |            |          |          |                |          | 数            | *            |         |         | 额            | *            | 7         | 64       | *                |          |              |          |          | · I             | _            |          |            | Ш          | 1   | -:       | 114        | -        | - 3      | 5,       | Şi            | 4                 | 13                  | *        | 1          | **           | 變          |
| Ī   |           | 3          |            | 3        |          | 歌              |          | Ž.           | 10           |         |         | 18.          |              | 100       | 65       | ŧ.               | 1        |              |          |          | _               |              |          |            | Ш          | *   | <u> </u> | 115        | _        | 1        |          | 1.            | *(\$\tilde{\chi}) |                     |          | N.         | *>           | *          |
| -{[ |           | t)         |            |          |          |                | 制        | 鷄            |              |         | 1       | 150          |              |           | 66       |                  | <i>i</i> |              |          | -        |                 |              |          |            |            |     |          | 116        | 7        | 2.0      | 2        | 4.4           |                   | IA                  |          | 100 E      | 3<br>***     |            |
|     |           | 12         | *          |          | 劉        |                | 2        | ¥.           | 4            | 1       |         |              |              | _         | 67       | 10               |          | *            | <u> </u> | <u>`</u> | _               |              | ` .      |            | Щ          | * ' | <u> </u> | 117        | _        | 4        | 1        |               | 7                 |                     |          |            |              | -1         |
| - [ |           | 8          |            |          |          |                | <b>A</b> | 3/           | á            |         | * *     |              | 3            | 1         | 68       | 1                | _        |              |          | ш        |                 | -            |          | Щ          | Н          |     |          | 118        |          | Ι.,      |          |               |                   |                     |          | **         | 7.0          | 28         |
| ·L  |           | 2          |            | FS       | 濫        | 题              | 激        | 7            |              |         |         | 1.           |              |           | 69       | 1                | <u>_</u> | <u> </u>     | $\Box$   | $\vdash$ | _               |              | -        | Н          | Н          | į   | <u> </u> | 119        | -        |          | <u> </u> |               |                   | 2                   | >        | $\dashv$   |              | H          |
| .   |           | 9          |            | 2        |          |                | 錢        |              |              |         | Ŀ       | 1            |              | L.        | 70       |                  |          | Ŀ            |          |          | $\dashv$        | 4            | _        | Ш          | Ш          |     | _        | 120        |          | 3        | ļ        |               |                   |                     |          |            | .4±          | έ¥         |
|     | ũ         | 1          | 鎣          |          | 謎        | 學者             | #        | ŗ.           | ,            | L       | L       | Ŀ            | ] [          | بَــا     | 71       | <u> </u>         |          | <u> </u>     | L.       |          |                 |              |          | Щ          | Н          |     | -        | 121        | <u> </u> | -        | <u> </u> | Н             |                   |                     |          | Н          |              | $\ddot{-}$ |
|     | ٠,        | 2          |            |          | *        | *              |          | **           | L            |         | 1       |              |              | _         | 72       | <u> </u>         | _        | L            | 1        | _        | -               |              | -        | Ш          | Н          |     | <u> </u> | 122<br>123 | -        | ┝        | ⊢        | -             | _                 |                     |          | $\vdash$   |              | $\dashv$   |
|     | ្ឋ        | <b>3</b> 3 |            | *        |          | 趣              |          |              | ļ.           | 1       | 1       | -            | l            | 1         | 73       | ⊢                |          | <u> </u>     | ⊢        | Ш        |                 |              |          |            | Н          |     |          | 124        |          | -        | ⊢        | $\vdash$      | -                 | -                   | - 7      | Н          |              | -          |
|     |           | 7          | *          | Ø.       | 100      |                | 3        | ╙            | <del> </del> | ╀       | ↓_      | ├            | ł            | <u> -</u> | 74<br>75 | ├                | ├        | ļ            | <u> </u> | $\vdash$ |                 | $\dashv$     |          | $\vdash$   | Н          |     | ├        | 125        |          | -        | ⊢        | -             | ⊢                 |                     |          | Н          | $\vdash$     | Н          |
| ž.  | 5         | ₹          | 2.5        | *        | 90       |                |          | 1            | $\vdash$     | 1       | 1       | ₩            | 1,           | -         | 76       | ┝                | ⊢        | <del> </del> | -        | _        | $\vdash$        | -            | -        | -          | Н          |     | ┝        | 126        | -        | -        | -        | H             |                   | 1                   |          | H          | $\vdash$     | Н          |
| ş.  |           | 4          |            | *        | 'n       | *              | 8        | -            |              | +       | 1-      | ŀ            | 4/           | Ή-        | 77       | ├                | ├-       | ├            | ⊢        | $\vdash$ | $\vdash$        |              |          |            | Н          |     | $\vdash$ | 127        | ⊢        | -        | ┢╌       | -             | ┝                 |                     | D        | H          |              | H          |
| ŀ   | 4.3       | 22<br>28   | V          | V        | 2.7      | 3              | ⊢        | ├-           | ╀            | +       | ╁┈      | <del>ا</del> | - 1          | -         | 78       | -                | ├        | ┢            |          | -        |                 |              | H        | H          | Н          |     | $\vdash$ | 128        |          | $\vdash$ | -        |               | ┢╌                | -                   | ń        | Н          | М            | П          |
|     |           | 29         | ĭ          | V        |          | 1              | -        | ╄            | ╁┈           | +       | ╁       | ╁            |              | $\vdash$  | 79       | ┢╌               | -        | ┝            | $\vdash$ | -        |                 | $\dashv$     | _        | Н          | H          |     | -        | 129        |          | ╁        |          |               | -                 |                     |          | М          | П            | П          |
| ŀ   | 34<br>(*) | 30         | 4          | V        | -        | 3              | Η:       | ╁╴           | +            | +       | ╁       | ╁            | ł            | $\vdash$  | 80       | $\vdash$         | ┢╌       | ├            | -        |          | Н               | $\neg$       | _        |            | Н          |     | Н        | 130        |          |          | ✝        | $\vdash$      | ┪                 |                     |          | М          | П            | П          |
| 3   |           | 31         | Н          | V        | 1        | $\vdash$       | ┢        | +=           | -            | +-      | ╁       | ╁            | 1            | $\vdash$  | 81       | ╁                | $\vdash$ | $\vdash$     | ┢        | H        | П               |              |          | -          | $\vdash$   |     | ┢        | 131        | _        |          | 1        |               | _                 | $\overline{}$       | П        |            | П            |            |
| F   |           | 32         | ्<br>ु     | بدا      |          | -              | -        | $\vdash$     | ╁            | +       | +       | t            | 1            | $\vdash$  | 82       | 1-               | T        | <del> </del> | $\vdash$ | Г        | Н               |              |          | Г          | П          |     |          | 132        | -        |          | Г        | Г             | Γ                 | $\vdash$            | Г        |            | П            | П          |
| 4   |           | 33         | 7          | V        | - 1      | $\vdash$       | -        | ╁╴           | +            | ╈       | +       | 1            | 1            | H         | 83       | $\vdash$         | t        | _            | 1        | Г        | П               |              |          | ┢          | П          |     |          | 133        |          | T        | 1        |               | Γ                 |                     | П        | $\Box$     |              |            |
|     | 10.       | 34         | Н          |          | i y      | $\vdash$       | H        | †            | T            | ╁       | 十       | t            | 1            | 一         | 84       | T                |          | $\vdash$     | Г        | Г        | П               |              |          | Г          | П          |     | Г        | 134        | 1        |          |          |               |                   |                     |          |            |              |            |
|     | •         | 33         | 4          | <u>Y</u> |          | 1              | T        | Τ            | Τ            | T       | T       | T            | 1            |           | 85       |                  |          | Γ            |          |          |                 |              |          |            |            |     |          | 135        |          |          |          |               |                   | $\Box$              |          |            |              |            |
| ا   | 1         | 36         | 0          | Ξ        | 1        | Τ              | 1        | T            | T            | T       | 1       |              | 1            |           | 86       |                  | Γ        |              |          |          |                 |              |          |            |            |     |          | 136        | -        |          |          |               |                   | Ĺ                   | 匚        |            |              | Ш          |
| *   | -,        | 37         | V          | V        | Ī        |                | Γ        | Γ            | Ι            | Τ       | Ι       | Ι            | ]            | Г         | 87       |                  | L        |              |          |          |                 |              | Ĺ        |            | $\Box$     |     | Ĺ        | 137        | +        |          | L        | <u> </u>      | L                 | $oxedsymbol{oxed}$  | <u>L</u> | <u>_</u>   | L_           | Ш          |
|     | ٠ ١٠      | 38         | V          | v        |          |                |          | ľ            |              | Ι       | L       |              | ] .          |           | 88       |                  |          |              |          |          |                 |              |          |            | $\Box$     |     | L        | 138        | -        | L        | L        |               | _                 | $\vdash$            | <b>L</b> | <u> </u>   | $\sqcup$     | Ш          |
| 1   | 21        | 39         | 0          | =        | Ŀ,       |                |          |              |              | oxdot   |         |              | 1            |           | 89       | -                |          | Ľ            |          | <u> </u> |                 |              |          |            | Ш          |     | L        | 139        | +        | $\vdash$ | L        | ↓_            | L                 | <u> </u>            | $\vdash$ | <u> </u>   | $\sqcup$     | ┦          |
| şe  |           | 40         | ٧          | V        |          | Γ              |          | $\prod$      |              |         |         | L            |              | L         | 90       | -                |          | L            |          | 乚        |                 |              | L        | _          | Ш          |     | L        | 140        |          | L        | L        | <u> </u>      | <u> </u>          | $\vdash$            | <u>_</u> | 上          | $oxed{oxed}$ | Ш          |
| 1   |           | 41         |            | V        | Γ.       |                | Γ        |              | Ι            | L       | I       | L            | ]            | L         | 91       |                  |          |              |          |          |                 |              | L        |            | Ш          |     | L        | 14         | -        | <u> </u> |          | <u> </u>      | L                 | $oxdapsymbol{oxed}$ | <u> </u> | <u> </u>   | ــــ         | Ш          |
| ı   | <         | 42         | 0          | =        |          | Γ              | Γ        | L            | Γ            | L       |         |              | ]            |           | 92       | -                |          |              |          | L        |                 |              | L        |            |            |     | L        | 142        |          | L        | 1        | <u> </u>      | L                 | ┡                   | $\vdash$ | ـ          | $\vdash$     | Ш          |
|     |           | 49         | Ţ          | Ľ        | L        |                |          | I            | L            | $\perp$ | L       | L            | 1            | L         | 93       | <u></u>          |          |              | L        | $\perp$  | <u> </u>        | _            | <u> </u> | _          |            |     | <u>_</u> | 14         | -        | <u> </u> | $\perp$  | <b> </b> -    | 1                 | $\vdash$            | ₩        | <b>↓</b> _ | $\vdash$     | $\vdash$   |
|     |           | 4          |            |          |          | Ĺ              |          | L            | Ĺ            | $\perp$ |         | $\perp$      | 1            | _         | 94       |                  | _        | $\perp$      | L        |          | $oxed{igspace}$ | L            | _        | ┞-         | lacksquare |     |          | 14         | _        | 1        | $\vdash$ | 1             | ┡                 | ₩                   | ₩        | ₩          | -            | Ш          |
| ۱ [ |           | 45         | L          |          | $\Box$   | Ĺ              | Ĺ        | L            | L            | $\perp$ | 1       | 1            | 4            | _         | 95       | +                | 1        | $\vdash$     | 1        | 1        | <b>├</b> -      | <u> </u>     | -        | ┞          | $\vdash$   |     | -        | 145        |          | $\vdash$ | ╀        | $\vdash$      | $\vdash$          | ┼                   | ╀        |            | $\vdash$     | ┼          |
| -   |           | _          | <u> V</u>  | ٢        | 1_       | L              | ↓        | $\perp$      | $\perp$      | 4       | $\perp$ | $\perp$      | 4            | <u> </u>  | 96       | -                | $\vdash$ | 1-           | $\perp$  |          | ⊢               | <u> </u>     | ⊢        | ₽-         | -          | ł   | -        | 140        | _        | ╀        | +        | +-            | ╀                 | $\vdash$            | +-       | $\vdash$   | $\vdash$     | Н          |
| ;   |           | 47         | -          | <u> </u> | <u> </u> | ┖              | $\perp$  | $\downarrow$ | $\perp$      | $\bot$  | $\perp$ | $\perp$      | 4            | <u>_</u>  | 97       | -                | $\perp$  | +            | ╀-       | 1        |                 | <del> </del> | $\vdash$ | <b>↓</b> - | 1          |     | -        | 14         |          | $\vdash$ | +        | ┼             | ╀                 | +                   | +        | +          | +            | +-         |
| ·   |           | 48         | <u> </u>   | ┞-       | ├-       | $\perp$        | ┼-       | +-           | +            | +       | +       | +            | 4            | -         | 98       | -                | +        | ╀            | ╄        | +        | $\vdash$        | -            | $\vdash$ | ╁╾         | +          | 1   | $\vdash$ | 14         |          | +        | +        | +             | +                 | ╁                   | +        | +          | $\vdash$     | 1          |
| 1   |           | 49         | <b> </b> - | 1        | $\vdash$ | ╄              | +        | +            | +            | +-      | +       | +            | -            | $\vdash$  | 99       |                  | +        | +            | +        | +        | +-              | $\vdash$     | ├        | ╁          | ╁          | 1   | $\vdash$ | 15         |          | +-       | +        | ╁╌            | +-                | +                   | +-       | +          | +            | $\vdash$   |
| - 1 |           | 50         | I          | ١        | 1        | 1              | 1        |              |              |         | 1       |              | لـ           | _         | 10       | ٧                |          | 1            |          | <u> </u> |                 | L            | 1        |            |            |     | _        | 1,0        | ┑_       |          |          |               | ٠.                |                     |          | —          | _            |            |

If more than 150 claims or 10 actions staple additional sheet here